Analysis of Unicorn Startups

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Import Packages	
port numpy as np port matplotlib.pyplot as plt om matplotlib.ticker import FuncFormatter	
	 2.2 Prepare data

2 Data Preparation

2.1 Load data

```
pd.set_option('display.max_columns', 50, 'display.width', 200)
df = pd.read_csv('input/Unicorns_Completed.csv')
```

2.2 Prepare data

```
df['Unicorn Date'] = pd.to_datetime(df['Unicorn Date'])
```

2.3 Preview data

```
df.head()
```

```
| Company | Valuation ($B) | Total Equity Funding ($) | Unicorn Date | Date Founded
→ | Years to Unicorn | Industry | Country
                                                | City
                                                              | Select Investors |
350.0 |
                                                                  | (2012-12-01
| 0 | SpaceX |
                                           900000000 | Timestamp
→ 00:00:00) |
                        2002 | 10y 3m | Enterprise Tech
                                                         | United States |
                  | Opus Capital, RRE Ventures, Relay Ventures
→ Hawthorne
                      300.0
                                           8000000000 | Timestamp
                                                                  | (2017-04-07
| 1 | ByteDance |
→ 00:00:00) |
                        2011 | 6y 3m
                                    | Enterprise Tech | China
                                                                       | Beijing
→ | Breyer Capital, Parkway VC, TIME Ventures
                                                 | 2 | OpenAI
                       157.0 |
                                          18000000000 | Timestamp
                                                                  | (2019-07-22
            → 00:00:00) |
                        2015 | 4y 6m
                                      | Industrials | United States | San
→ Francisco
             | Dynamo VC, Susa Ventures, Founders Fund
| 3 | Ant Group |
                                          1900000000 | Timestamp
                                                                  | (2017-01-01
                      150.0
→ 00:00:00) |
                                     | Financial Services | China
                        2014 | 3y
                                                                       | Hangzhou
\hookrightarrow | Alibaba Group, CPP Investments, The Carlyle Group |
| 4 | Stripe
                        70.0
                                           900000000 | Timestamp
                                                                  | (2014-01-23
                        2009 | 5y
→ 00:00:00) |
                                      | Consumer & Retail | United States | San
             | Sequoia Capital China, ZhenFund, K2 Ventures
→ Francisco
```

3 Time-Based Analysis

3.1 Number of Unicorns Created Over Time

1. Count Unicorns by Year

```
unicorn_count = df.groupby(df['Unicorn Date'].dt.year).size()
unicorn_count
```

2. Visualize the Trend

```
plt.figure(figsize=(12, 6))
plt.plot(unicorn_count.index, unicorn_count.values, marker='o')
plt.title('Number of Unicorns Created Over Time')
plt.xlabel('Year')
plt.ylabel('Number of Unicorns')
plt.xticks(unicorn_count.index, rotation=45)
plt.grid()
plt.show()
```

